

**Notice of Allowability**

Application No.

10/670,978

Examiner

Long Nguyen

Applicant(s)

HALL, JEFFERSON W.

Art Unit

2816

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment filed on 3/4/05.
2. ☒ The allowed claim(s) is/are 1,6-11 and 16-18.
3. ☒ The drawings filed on 26 September 2003 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All   b) ☐ Some\*   c) ☐ None   of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |  |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)  | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)            |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                    |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material          | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance   |
|   | 9. <input type="checkbox"/> Other _____.   |

### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Robert Hightower on 3/30/05.

The application has been amended as follows:

#### In The Specification

On page 9, line 7-8, "transistor 44 (Jeff, Is transistor 44 shows correctly in FIG. 3 or do we need to change it?)." has been changed to --transistor 44.--.

#### In The Claims

Claim 1, line 13, "or" has been changed to --and--.

Claim 1, line 16, "of one" has been changed to --of the other one--.

Claim 1, line 17, "or" has been changed to --and--.

Claim 6, line 15, "and a drain" has been changed to --and a source--.

Claim 7, line 2, "source" has been changed to --drain--.

Claim 8, line 12, "first signal;" has been changed to --voltage from a voltage source;--.

Claim 8, line 15, "receive a second signal," has been changed to --a signal node,--.

Claim 8, line 16, "and a drain" has been changed to --and a source--.

Claim 8, line 19, "a voltage from a voltage" has been changed to --the voltage from the voltage--.

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Claim 8, line 21, "source" has been changed to --drain--.

Claim 12 has been canceled.

Claim 17, line 1-2, "16 further wherein" has been changed to --16, wherein--.

Claim 17, line 2, "drain coupled" has been changed to --drain is coupled--.

### **Reasons For The Above Changes**

The above change in the specification has been made to correct the minor informality in the specification.

The above changes in the claims have been made to correct the minor informalities and/or the indefiniteness so that the claims are clear.

### **REASONS FOR ALLOWANCE**

2. Claims 1, 6-11 and 16-18 are allowed. The following is an examiner's statement of reasons for allowance:

Claim 1 is allowed because the prior art of record fails to disclose or suggest the limitations of forming a second depletion mode transistor and a third depletion mode transistor with the recited connections set forth therein.

Claim 6 is allowed because the prior art of records fails to disclose or suggest the limitations of another enhancement mode transistor, another depletion mode transistor, a resistor and a microprocessor with the recited connections set forth therein.

Claim 7 is allowed because it depends on claim 6.

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Claim 8 is allowed because the prior art of records fails to disclose or suggest the limitations of another enhancement mode transistor, another depletion mode transistor, and a lower output transistor with the recited connections set forth therein.

Claim 9 is allowed because the prior art of records fails to disclose or suggest the limitations of another enhancement mode transistor and another depletion mode transistor with the recited connections set forth therein.

Claims 10 and 11 are allowed because they depend on claim 9.

Claim 16 is allowed because the prior art of record fails to disclose or suggest a circuit including an enhancement mode transistor, a depletion mode transistor having a first drain, and a resistor, wherein the first drain is coupled to the first terminal of the resistor and to a signal input of a microprocessor and the second terminal of the resistor is coupled to a voltage source.

Claim 17 is allowed because it depends on claim 16.

Claim 18 is allowed because the prior art of record fails to disclose or suggest a circuit including an enhancement mode transistor having a second drain, a depletion mode transistor having a first drain, and a resistor, wherein the second drain is coupled to the first terminal of the resistor and to a signal input of a microprocessor and the second terminal of the resistor is coupled to a voltage source.

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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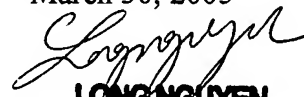
***Conclusion***

4. Any inquiry concerning this communication or earlier communications from the examiner should be directly to Examiner Long Nguyen whose telephone number is (571) 272-1753. The Examiner can normally be reached on Monday to Friday from 8:30am to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tim Callahan, can be reached at (571) 272-1740. The fax number for this group is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

March 30, 2005

  
**LONG NGUYEN**  
**PRIMARY EXAMINER**